Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

HW#33H: Two Column Proofs

Honors Geometry

Due Date: Thursday, Nov 13th, 2014

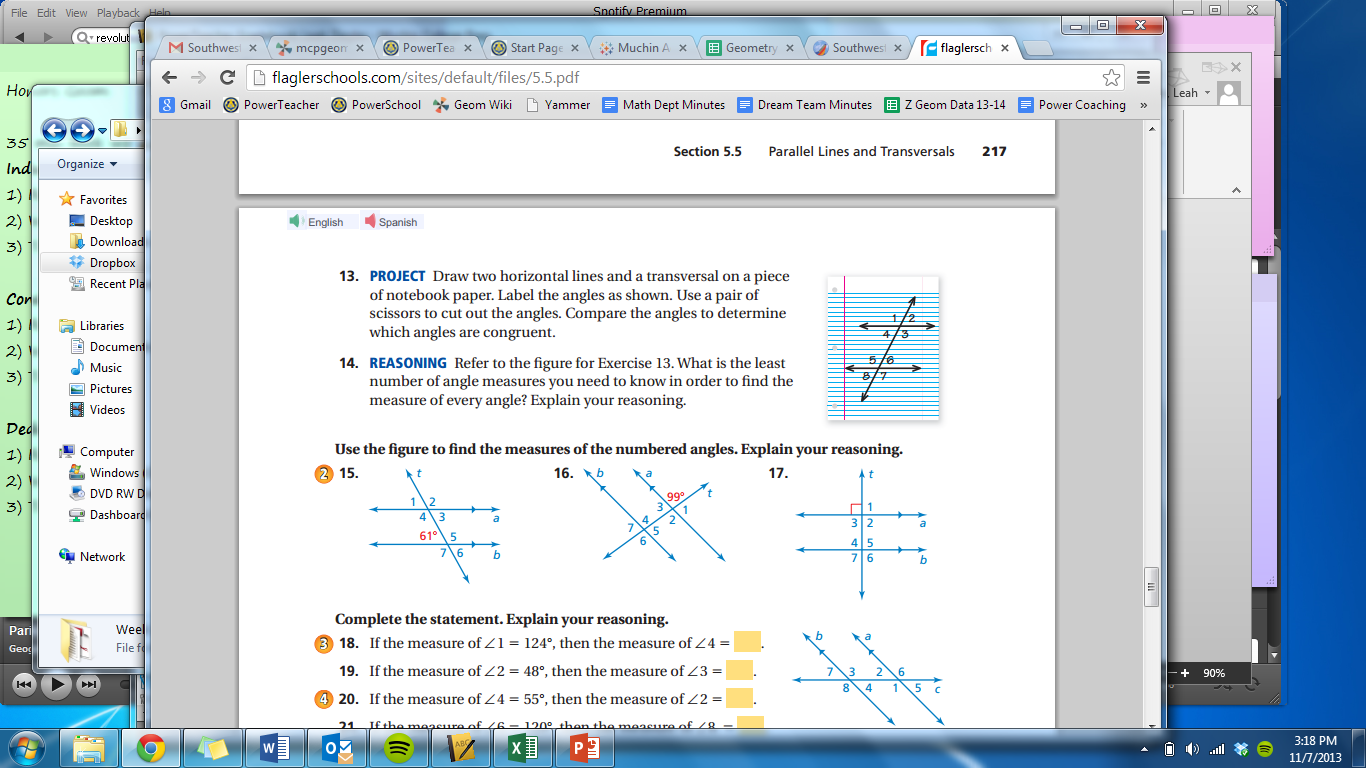
**Failure to show work on all problems or use complete sentences will result in a LaSalle.**

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| 1. **GIVEN:** *HI* = 9, *IJ* =9, ≅   *IJ*  *JH*  **PROVE:** ≅  *JH*  *HI* | |  |  | | --- | --- | | **Statements** | **Reasons** | | 1. *HI* = 9 |  | | 1. *IJ* = 9 |  | | 1. *HI = IJ* |  | | *HI*  *IJ*   |  | | 1. ≅   *JH*  *IJ* |  | | 1. ≅   *JH*  *HI* |  | |
| 1. **GIVEN:** ∠3 and ∠2 are complementary.   *m*∠1 + *m*∠2 = 90°  **PROVE:** ∠3 ≅ ∠1 | |  |  | | --- | --- | | **Statements** | **Reasons** | | ∠3 and ∠2 are complementary |  | | 1. *m*∠1 + *m*∠2 = 90° |  | | 1. *m*∠3 + *m*∠2 = 90° |  | | 1. *m*∠1 + *m*∠2 = *m*∠3 + *m*∠2 | 4. | | 1. *m*∠1 = *m*∠3 | 5. | | 1. ∠1 ≅ ∠3 |  | |
| * 1. **GIVEN:** *AL* = *SK*   **PROVE:** *AS* = *LK* | |  |  | | --- | --- | | **Statements** | **Reasons** | | * 1. *AL = SK* |  | | * 1. *LS = LS* |  | | * + 1. *AL* + *LS* = *SK* + *LS* |  | | * + - * 1. *AL* + *LS* = *AS* |  | | 1. *SK + LS = LK* |  | | * + 1. *AS* = *LK* |  | |

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| 4.  **GIVEN:** ∠2  ∠3  **PROVE:** ∠l  ∠4 | |  |  | | --- | --- | | **Statements** | **Reasons** | | 1. ∠2  ∠3 |  | | * 1. ∠3  ∠4 |  | | * + 1. ∠2  ∠4 |  | | 1. ∠l  ∠2 |  | | 1. ∠l  ∠4 |  | |

***Directions:*** Read the promt below. On a seperate piece of paper, respond to it in at least 5 sentences. Your response will be scored out of 10 points on the rubric.

***Refer to the figure below. What is the least number of angle measures you need in order to find the measure of every angle? Explain your reasoning.***



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| --- | --- | --- | --- |
| **Criteria** | **0** | **1** | **2** |
| **Thesis/Answer** | Thesis/Answer is incorrect. | Thesis/Answer is correct, but has small errors in wording and/or vocabulary. | Thesis is relevant, accurately stated and addresses the prompt. |
| **Defense** | Explanation does not answer the question as given. | Explanation attempts to answer the question, but is missing one or more correct pieces. | Explanation is completely correct. |
| **Vocabulary** | Vocabulary is used incorrectly or vocabulary terms unrelated to the prompt are used. | Vocabulary is used correctly in most places, but there are one or two errors in understanding. | All math vocabulary is used correctly and demonstrates knowledge in context. |
| **Grammar** | Explanation cannot be understood clearly after two readings. | Explanation requires two readings for the teacher to understand. | Explanation can be read and comprehended easily in one reading. |
| **Professionalism** | Explanation in incomplete. | Explanation is complete with minimum effort. | Explanation exceeds minimum effort or shows a great deal of thought and/or quality. |

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